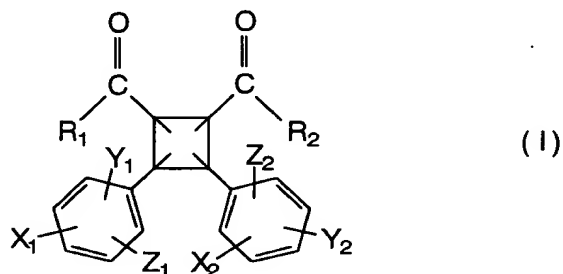


CLAIMS

1. An analgesic agent comprising as an active ingredient a cyclobutanedicarboxylic acid derivative, containing substituted diphenyl, represented by formula (I):



wherein X₁, X₂, Y₁, Y₂, Z₁, and Z₂, which may be the same or different, each independently represent a hydrogen atom, hydroxyl, a halogen atom, alkyl, alkoxy, or a nitrogen-containing group; and R₁ and R₂, which may be the same or different, each independently represent hydroxyl, a halogen atom, alkoxy, aryloxy, terpeneoxy, saccharide, or a nitrogen-containing group.

2. The analgesic agent according to claim 1, wherein, in formula (I), X₁ = X₂, Y₁ = Y₂, and Z₁ = Z₂.

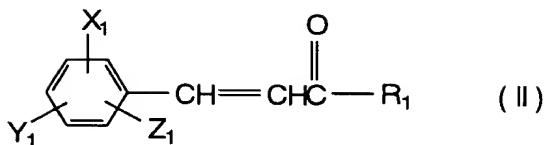
3. The analgesic agent according to claim 1 or 2, wherein any one of X₁, Y₁ and Z₁ and any one of X₂, Y₂ and Z₂ both represent hydroxyl or a halogen atom while the remaining groups represent a hydrogen atom.

4. The analgesic agent according to any one of claims 1 to 3, wherein R₁ and R₂ each independently represent hydroxyl, methoxy, or nitrophenoxy.

5. A process for producing a cyclobutanedicarboxylic acid derivative for the analgesic agent according to any one of claims 1 to 4, said process comprising the steps of:

providing a cinnamic acid derivative represented by formula (II)

F02210-52459/60



wherein X_1 , Y_1 , and Z_1 , which may be the same or different, each independently represent a hydrogen atom, hydroxyl, a halogen atom, alkyl, alkoxy, or a nitrogen-containing group; and R_1 represents hydroxyl, a halogen atom, alkoxy, aryloxy, terpeneoxy, saccharide, or a nitrogen-containing group; and

dispersing the derivative in an organic solvent and then irradiating the dispersion with light to allow photodimerization to proceed.

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